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DRAUGHTSMAN GRADE II(SR FOR SC/ST)SURVEY AND LAND RECORDS

EXAM DATE:10-08-2016

1.One hectare equals:

A.100m<sup>2</sup>

B.1000m<sup>2</sup>

C.10,000m<sup>2</sup>\*

D.100000m<sup>2</sup>

Ans:C

2.Chain surveying is most suitable for:

A.Forest area

B.Hill area

C.Undulating area

D.Flat surface\*

Ans:D

3.If a measuring tape is too long as compared to standard length,the error will be:

A.Accidental error

B.Instrumental error\*

C.Personal error

D.Natural error

Ans:B

4.The boundary of water of a still lake represents:

A.Level surface

B.Horizontal surface

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C.Contour line\*

D.Concave line

Ans:C

5.Which method in plane table surveying for locating previous station point?

A.Intersection

B.Radiation

C.Resection\*

D.Traversing

Ans:C

6.Multiplying constant for the theodolite is generally:

A.50

B.100\*

C.150

D.200

Ans:B

7.The ratio of the length of the object in the drawing to the actual length of the object is called:

A.Full scale

B.Least count

C.Diagonal scale

D.Representative fraction\*

Ans:D

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8.A 500 sq.m area is represented by 500 sq.mm in a drawing.The scale of the drawing is:

A.1 mm=100m

B.1 mm=5m

C.1 mm=1m\*

D.1 mm=10m

Ans:C

9.Process of turning the telescope about the vertical axis in a horizontal plane is called:

A.Reversing

B.Transiting

C.Phiging

D.Swinging\*

Ans:D

10.The instrument used for measuring area on a contour map is:

A.Clinometer

B.Planimeter\*

C.Pantograph

D.Graphometer

Ans:B

11.In leveling a station point where

A.Levelling instrument is set up

B.Bench 1 lark is marked

C.Levelling staff is placed\*

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D.All off these

Ans:C

12.The last reading of leveling is always a:

A.Fore sight\*

B.Back sight

C.Intermediate sight

D.Change point

Ans:A

13.Levelling across a river is done by:

A.Fly leveling

B.Cross leveling

C.Trigonometrical leveling

D.Reciprocal leveling\*

Ans:D

14.The line of collimation should be parallel to:

A.Vertical axis

B.Bubble axis\*

C.Plumb axis

D.None of these

Ans:B

15.The height of instrument method is:

A.Less todious

B.More rapid

C.Less calculation

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D.All of these\*

Ans:D

16.While traversing anticlockwise a closed traverse of 'N'sides,theoretical sum of included angles should be:

A. $(2N-4) \times 90^\circ$ \*

B. $(2N+4) \times 90^\circ$

C. $(2N+-4) \times 90^\circ$

D. $360^\circ$

Ans:A

17.Angle of dip at pole is:

A. $0^\circ$

B. $30^\circ$

C. $45^\circ$

D. $90^\circ$ \*

Ans:D

18.An offset more than 15m in length is called:

A.Oblique offset

B.Short offset

C.Long offset\*

D.Right angled offset

Ans:C

19.To calculate the area,the expression

$$A = n/3[(F+L)+2O+4E]$$

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Where 'F' is first ordinate,'L'is the last ordinate,'O'is odd of ordinates 'E' is even ordinates and 'h'is the common distance between the ordinates:

- A.Average ordinate rule
- B.Mid ordinate rule
- C.Trapezoidal rule
- D.Simpson's rule\*

Ans:D

20.The correction for sag is always:

- A.Positive
- B.Negative\*
- C.Zero
- D.None of these

Ans:B

21.Metalic tapes are made of:

- A.Stainless steel
- B.Nickel
- C.Steel and nickel
- D.Yarn and wire\*

Ans:D

22.Example for a deep foundation:

- A.Grillage foundation
- B.Well foundation\*
- C.Mat foundation
- D.Step foundation

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Ans:B

23.Mechanical advantage equal to:

A.W/P\*

B.P/W

C.P xW

D.P-W

Ans:A

24.The resultant of two forces 'P' and 'Q' acting at angle 'theta' is equal to

A.Square root of  $P^2+Q^2+2PQ \sin(\theta)$

B. Square root of  $P^2-Q^2+2PQ \sin(\theta)$

C. Square root of  $P^2+Q^2+2PQ \cos(\theta)$ \*

D. Square root of  $P^2-Q^2+2PQ \cos(\theta)$

Ans:C

25.The ratio of stress to strain is:

A.Elasticity

B.Modulus of elasticity\*

C.Bulk modulus

D.Poisson's ratio

Ans:B

26.In conics the fixed point is called:

A.Vertex

B.Apex

C.Helix

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D.Focus\*

Ans:D

27.A regular solid having six square faces is:

A.Hexagon

B.Octa hedron

C.Cube\*

D.Tetra hedran

Ans:C

28.The horizontal angle between the true meridian and line is called:

A.Magnetic bearing

B.Azimuth\*

C.Arbitrary bearing

D.Reduced bearing

Ans:B

29.The observed fore bearing of a line is  $127^{\circ}18'$  then the back bearing is:

A. $322^{\circ}18'$ \*

B. $37^{\circ}42'$

C. $322^{\circ}42'$

D. $232^{\circ}18'$

Ans:A

30.The true bearing of a line is  $127^{\circ}$  and declination is  $2^{\circ}$ W.The magnetic bearing equals:

A. $125^{\circ}$



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B. $131^{\circ}$

C. $129^{\circ}$ \*

D. $135^{\circ}$

Ans:C

31.The sum of the interior angles of a regular pentagon is:

A. $360^{\circ}$

B. $540^{\circ}$ \*

C. $720^{\circ}$

D. $630^{\circ}$

Ans:B

32.The bearing of a line AB is  $152^{\circ} 20'$  and the angle BAC is  $124^{\circ} 38'$ .The bearing of AC is:

A. $96^{\circ} 58'$

B. $96^{\circ} 18'$

C. $276^{\circ} 58'$ \*

D. $127^{\circ} 18'$

Ans:C

33.The inclination of the compass needle with the horizontal is known as.

A.Declination

B.Dip\*

C.True bearing

D.Magnetic Declination

Ans:B

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34.The angle between the reflecting surfaces of a prism square is:

A. $45^{\circ}$ \*

B. $60^{\circ}$

C. $75^{\circ}$

D. $90^{\circ}$

Ans:A

35.The angle of depression in theodolite traverse is:

A.Positive angle

B.Negative angle\*

C.Both positive and negative angle

D.Above horizontal angle

Ans:B

36.The bench mark at A is '200'm and staff reading at A is '3.5'm and the staff reading at B is '2'm.The reduced level at B is:

A.203.5 m

B.202.0 m

C.201.5 m\*

D.202.5 m

Ans:C

37.Which method is particularly suitable when a contoured map of a hill required?

A.Radial method

B.Square method

C.Cross-section method

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D.Tachemetric method\*

Ans:D

38.The most common Coagulant is:

A.Alum\*

B.Chlorine

C.Bleaching powder

D.All of these

Ans:A

39.The whole circle bearing of a line is  $165^{\circ}$ .Its reduced bearing is:

A.N  $75^{\circ}$ E

B.N  $75^{\circ}$ W

C.S  $15^{\circ}$ E\*

D.S  $15^{\circ}$ W

Ans:C

40.To locate an electric post near the plane table station which of the following method is suitable:

A.Intersection

B.Radiation\*

C.Resection

D.Traverse

Ans:B

41.If distance between two points A and B is 1 km,then combined correction for curvature and refraction will be:

A. $0.0673 D^2m$ \*

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B.1.0673 D<sup>2</sup>m

C.0.673 D<sup>2</sup>m

D.1.673 D<sup>2</sup>m

Ans:A

42.The process of establishing intermediate points between two end points which are not intervisible,with the help of a theodolite is called:

A.Lining in

B.Ranging

C.Balancing-in\*

D.Random line

Ans:C

43.The observation is taken on a change point is:

A.Fore sight

B.Back sight

C.Intermediate sight

D.Both fore sight and back sight\*

Ans:D

44.The isometric projection of a square is:

A.Rectangle

B.Rhombus\*

C.Parallelogram

D.Trapezoid

Ans:B

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45.In a simply supported beam the point where the maximum bending moment occurs is at:

- A.Support point
- B.Mid point
- C.The point where SF is zero\*
- D.End point

Ans:C

46.Which of the following is used for checking vertically of masonry wall?

- A.Spirit level
- B.Water level
- C.Trowel
- D.Plumb bob\*

Ans:D

47.Departure co-ordinate related to:

- A.North and South
- B.East and West\*
- C.South and West
- D.South and East

Ans:B

48.Bureau of Indian standards has recommended the use of folding staff as:

- A.2m
- B.3m

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C.4m\*

D.4.5m

Ans:C

49.The observation with level is:

A.Horizontal linear measurement

B.Vertical linear measurement\*

C.Angular measurement

D.Horizontal angular measurement

Ans:B

50.The box of the compass is made of:

A.Aluminium

B.Iron

C.Copper

D.Brass\*

Ans:D

51.A fixed point of known elevation is:

A.Bench Mark\*

B.Station pint

C.Change point

D.Intermediate point

Ans:A

52.Ring contours of higher values interval represents inside:

A.Ridge

B.Pond

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C.Hill\*

D.Valley

Ans:C

53.The closing error of theodolite traverse where 'L' is the latitude and 'D' is the departure:

54.The horizontal angle between true meridian and a survey line is:

A.Dip

B.Magnetic Declination

C.Magnetic bearing

D.Azimuth\*

Ans:D

55.The method used for calculating the earth work with more accuracy is:

A.Trapezoidal Rule

B.Mid-ordinate rule

C.Prismoidal rule\*

D.Average ordinate rule

Ans:C

56.The length of long chord is:

A. $2R \cos(\theta/2)$

B. $2R \sin(\theta/2)$ \*

C. $R \cos(\theta/2)$

D. $R \sin(\theta/2)$

Ans:B

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57.An instrument which is used for measuring horizontal angle,vertical angle and direct distance accurately is:

A.Tacheometric survey

B.Theodolite survey

C.Box-sextant

D.Total station\*

Ans:D

58.The value of deflection angle is:

A. $0^{\circ}$  to  $90^{\circ}$

B. $0^{\circ}$  to  $180^{\circ}$ \*

C. $0^{\circ}$  to  $270^{\circ}$

D. $0^{\circ}$  to  $360^{\circ}$

Ans:B

59.In telescope the ratio of the focal length of the object to that of an eye-piece is known as:

A.Magnification\*

B.Sensitivity

C.Definition

D.Brightness

Ans:A

60.For accurate measurement of distance which tape is better?

A.Metallic tape

B.PVC coated tape

C.Steel tape



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D.Invar tape\*

Ans:D

61.The number of links in a 30 m metric chain is:

A.100 links

B.150 links\*

C.180 links

D.200 links

Ans:B

62.The process of turning the telescope about the vertical axis in horizontal plane is called:

A.Transiting

B.Reversing

C.Plugging

D.Swinging\*

Ans:D

63.During chaining a straight line,the leader of the party has 4 arrows in his hand while the follower has 6 arrows in his hand from the starting point is:

A.4 chains

B.6 chains\*

C.120 metre

D.180 metre

Ans:B

64.The permissible error in compass survey is:

A.15 minutes\*

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B.15 seconds

C.30 seconds

D.1 degree

Ans:A

65.In first angle projection the object is placed:

A.Above HP and behind VP

B.Above HP and infront of VP\*

C.Below HP and behind VP

D.Below HP and Infront of VP

Ans:B

66.In Engineering drawing chain lines are used for:

A.Visible out lines

B.Dimension lines

C.Hidden lines

D.Centre lines\*

Ans:D

67.A well conditioned triangle has angles not less than and not more than respectively:

A. $10^{\circ}$  and  $90^{\circ}$

B. $20^{\circ}$  and  $120^{\circ}$

C. $30^{\circ}$  and  $120^{\circ}$ \*

D. $90^{\circ}$  and  $120^{\circ}$

Ans:C

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68.A scale representing either three units or only one unit and its fractions upto second place of decimal points is:

- A.Diagonal scale\*
- B.Plane scale
- C.Vernier scale
- D.Comparative scale

Ans:A

69.Importent points selected at the ends of the chain lines to command the boundaries of the survey are called:

- A.Tie stations
- B.Subsidiary stations
- C.Main stations\*
- D.Check stations

Ans:C

70.The error due to bad ranging is:

- A.Compensing error
- B.Cumulative positive error\*
- C.Cumulative negative error
- D.Both B and C

Ans:B

71.The reduced bearing of a line whose whole circle bearing is  $40^0$

- A.S  $40^0$ E
- B.S  $50^0$ E
- C.N  $40^0$ E\*

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D.N  $40^{\circ}$ W

Ans:C

72.Fore bearing of a line is S  $60^{\circ}$ W,The back bearing is:

A.N  $60^{\circ}$ E\*

B.N  $30^{\circ}$ E

C.S  $60^{\circ}$ E

D.S  $30^{\circ}$ W

Ans:A

73.Geocletic survey is different from plane surveying because of:

A.Very large area is covered

B.Undulations of the topography

C.Curvature of the earth is considered\*

D.Large difference of elevations

Ans:C

74.The type of theodolite classified as:

A.Diameter of upper plate

B.Diameter of lower plate\*

C.Diameter of vertical plate

D.Diameter of telescope

Ans:B

75.The traverse slope provided on the surface of the road to remove the rain water:

A.Crown

B.Gradient

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C.Super elevation

D.Camber\*

Ans:D

76.Volume of a solid sphere is:

B. $4(\pi)r^3$

C. $\frac{4}{3}(\pi)r^3$ \*

D. $\frac{3}{4}(\pi)r^3$

Ans:C

77.The actual size of standard brick is:

A.20x10x10 cm

B.19x9x9 cm\*

C.20x20x10 cm

D.19x19x9 cm

Ans:B

78.Full form of"CAD":

A.Computer Aided Drafting

B.Computer Aided Demonstration

C.Computer Aided Designing\*

D.Computer Aided Dimensioning

Ans:C

79.A command which is used to pick points like end point,mid-point,tangent etc.of entities very precisely which geometrical accuracy:

A.GRID

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B.ZOOM

C.DIM

D.OSNAP\*

Ans:D

80.The Bench Marks established by the survey of India Department:

A.Permanent Bench Marks

B.GTS Bench Marks\*

C.Arbitrary Bench Marks

D.Temporary Bench Marks

Ans:B

81.The pass located at the Southern end of the Nilgiri Hills in South India is called:

A.Palghat gap\*

B.Bhorghat pass

C.Thalgat pass

D.Bolan pass

Ans:A

82.The Gulf of mannar is situated along the coast of which state in India?

A.Karnataka

B.Kerala

C.Andhra Pradesh

D.Tamil Nadu\*

Ans:D

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83.Which of the following rivers originate near Mahabaleshwar?

- A.Godavari
- B.Krishna\*
- C.Kaveri
- D.Tapti

Ans:B

84.How many National Waterways are there in India?

- A.3\*
- B.5
- C.7
- D.9

Ans:A

85.Which river is referred as Kalindhi in Puranas?

- A.Ganga
- B.Yamuna\*
- C.Saraswathi
- D.Brahmaputra

Ans:B

86.BhagatSingh was sentenced to death in which case?

- A.Kakori case
- B.Chauri-Chaura case
- C.Assembly bomb case
- D.Lahore conspiracy case\*

Ans:D

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87.Who was the governor general of India when the 1st war of Indian Independence broke out in 1857?

- A.Lord Canning\*
- B.Lord Dalhousie
- C.Lord Ripon
- D.Lord Dufferin

Ans:A

88.Who was the President of the Indian National Congress in the Gaya Session of 1922?

- A.Motilal Nehru
- B.C.R.Das\*
- C.Sardar Patel
- D.Bal Gangadhar Tilak

Ans:B

89.The founder of Satya Shodhak Samaj:

- A.Dr.Atmaram Pandurang
- B.Gopal Hari Deshmukh
- C.M.G.Ranade
- D.JyotiRao Phule\*

Ans:D

90.Inclusion of the word Fraternity in the preamble of Indian Constitution is proposed by?

- A.Jawaharlal Nehru
- B.Dr.B.R.Ambedkar\*
- C.Rajendra Prasad



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D.J.B.Kripalani

Ans:B

91.The founder of Atma Vidya Sangham?

A.Vagbhatananda Gurudeva\*

B.Vaikunda Swami

C.Chattampi Swami

D.Sree Narayana Guru

Ans:A

92.Who was the editor of Mitavadi?

A.K.Ayyappan

B.C.Krishnan\*

C.Rama Krishna Pillai

D.K.Kelappan

Ans:B

93.Who is known as the father of Kerala Renaissance?

A.Ayyankali

B.Dr.Palpu

C.Sree Narayana Guru\*

D.A.K.Gopalan

Ans:C

94.When was the historic Temple Entry Proclamation made?

A.April 12,1936

B.March 12,1936

C.June 12,1936

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D.November 12,1936\*

Ans:D

95.Who among the following is the leader of Malayalee Memorial?

A.C.Kesavan

B.Dr.Palpu

C.Barister G.P.Pillai\*

D.Kumaranasan

Ans:C

96.'Operation protective Edge'is the name of which country's controversial military action launched on its neighbor?

A.Israel\*

B.Syria

C.Jordan

D.Iran

Ans:A

97.Which day is observed as World Population Day?

A.June 11

B.July 11\*

C.March 11

D.April 11

Ans:B

98.Who received the Golden Ball award for the best player of FIFA World Cup 2014?

A.Lionel Messi\*

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B.Karim Bensema

C.Christiano Ronaldo

D.Angel D'Maria

Ans:A

99.With which game is Davis cup associated?

A.Football

B.Cricket

C.Hockey

D.Lawn Tennis\*

Ans:D

100.Who is the present united nations deputy secretary General?

A.Ban-Ki-Moon

B.Jose Graziano

C.Joan Closi Mathew

D.Jan Eliasson\*

Ans:D